FIG. 1

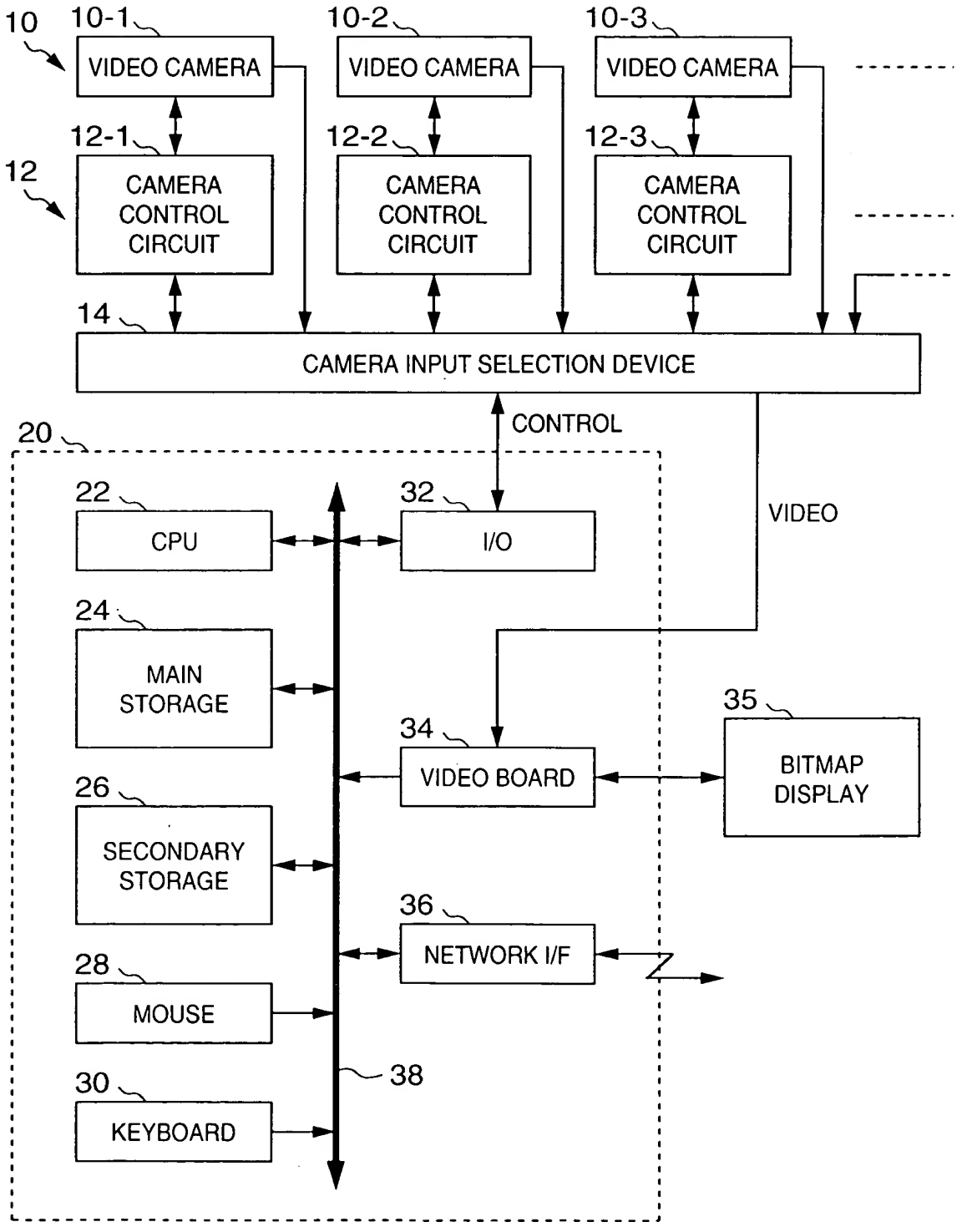

10
10-1
VIDEO CAMERA
10-2
VIDEO CAMERA
10-3
VIDEO CAMERA
12
12-1
CAMERA CONTROL CIRCUIT
12-2
CAMERA CONTROL CIRCUIT
12-3
CAMERA CONTROL CIRCUIT
14
CAMERA INPUT SELECTION DEVICE
CONTROL
VIDEO
20
22
CPU
32
I/O
24
MAIN STORAGE
34
VIDEO BOARD
35
BITMAP DISPLAY
26
SECONDARY STORAGE
36
NETWORK I/F
28
MOUSE
38
30
KEYBOARD

FIG. 2

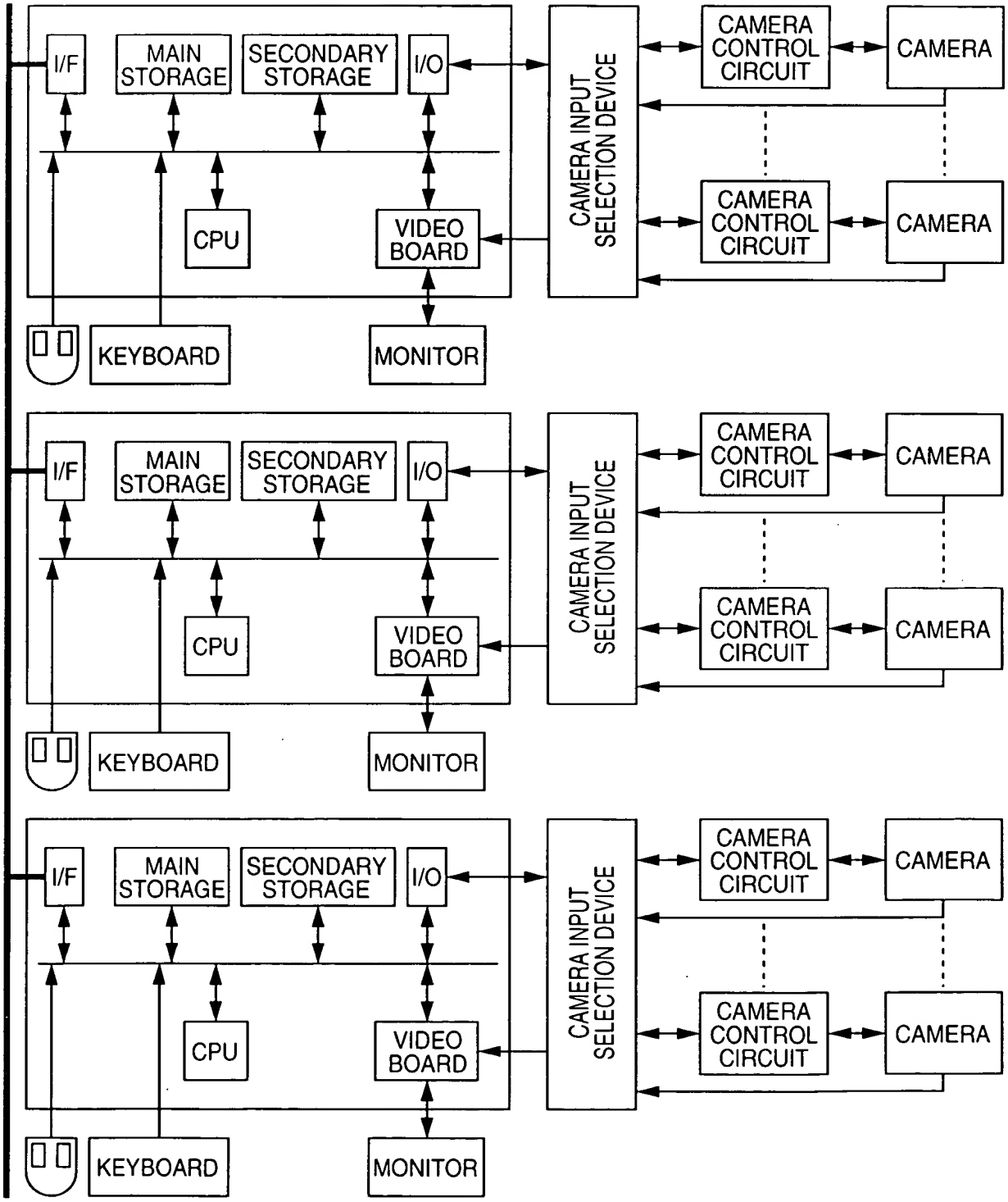

I/F
MAIN STORAGE
SECONDARY STORAGE
I/O
CPU
VIDEO BOARD
KEYBOARD
MONITOR
CAMERA INPUT SELECTION DEVICE
CAMERA CONTROL CIRCUIT
CAMERA
CAMERA CONTROL CIRCUIT
CAMERA
I/F
MAIN STORAGE
SECONDARY STORAGE
I/O
CPU
VIDEO BOARD
KEYBOARD
MONITOR
CAMERA INPUT SELECTION DEVICE
CAMERA CONTROL CIRCUIT
CAMERA
CAMERA CONTROL CIRCUIT
CAMERA
I/F
MAIN STORAGE
SECONDARY STORAGE
I/O
CPU
VIDEO BOARD
KEYBOARD
MONITOR
CAMERA INPUT SELECTION DEVICE
CAMERA CONTROL CIRCUIT
CAMERA
CAMERA CONTROL CIRCUIT
CAMERA

FIG. 3

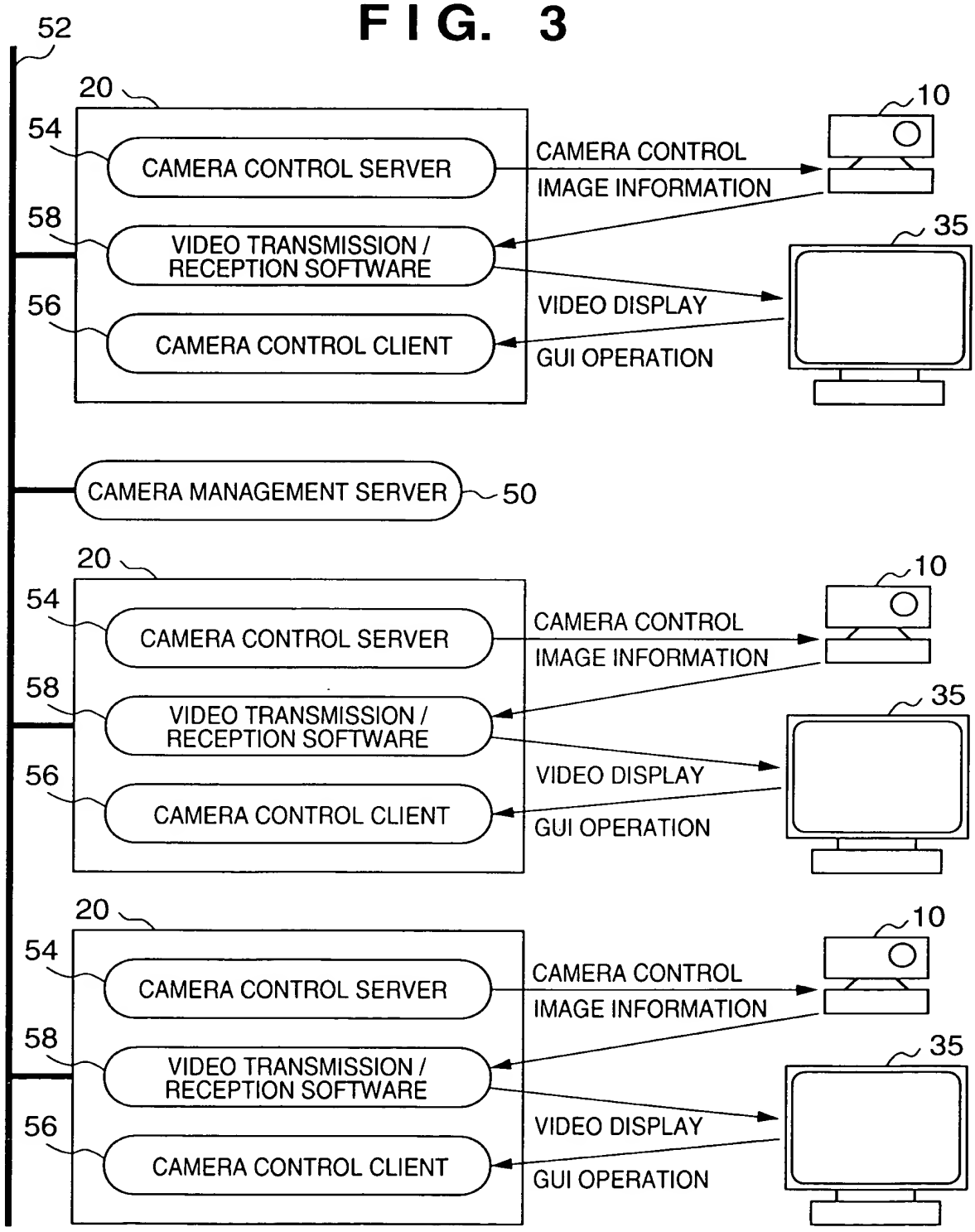

52
20
54
CAMERA CONTROL SERVER
58
VIDEO TRANSMISSION / RECEPTION SOFTWARE
56
CAMERA CONTROL CLIENT
CAMERA CONTROL
IMAGE INFORMATION
VIDEO DISPLAY
GUI OPERATION
10
35
CAMERA MANAGEMENT SERVER
50
20
54
CAMERA CONTROL SERVER
58
VIDEO TRANSMISSION / RECEPTION SOFTWARE
56
CAMERA CONTROL CLIENT
CAMERA CONTROL
IMAGE INFORMATION
VIDEO DISPLAY
GUI OPERATION
10
35
20
54
CAMERA CONTROL SERVER
58
VIDEO TRANSMISSION / RECEPTION SOFTWARE
56
CAMERA CONTROL CLIENT
CAMERA CONTROL
IMAGE INFORMATION
VIDEO DISPLAY
GUI OPERATION
10
35

FIG. 4

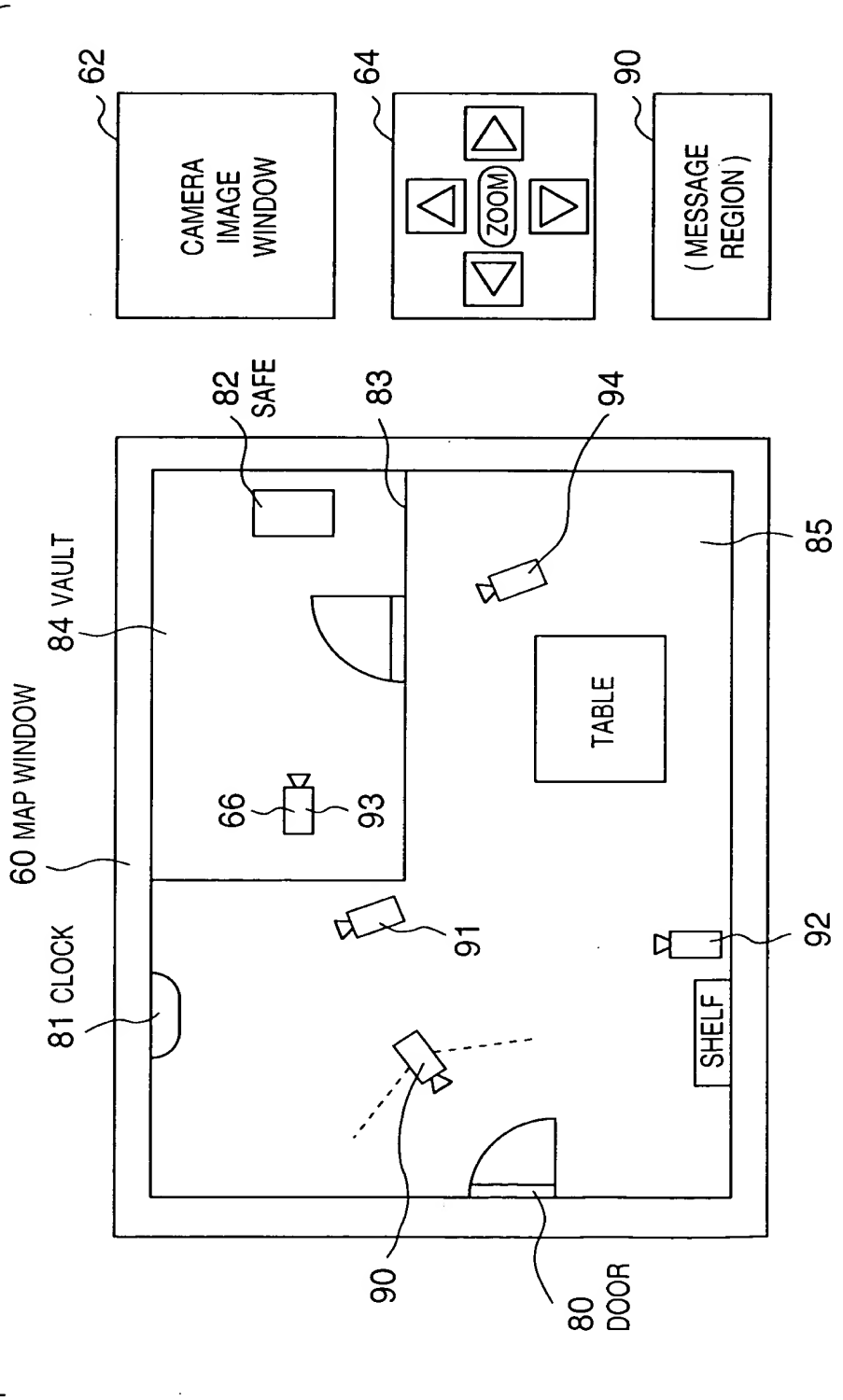

62
CAMERA IMAGE WINDOW
64
ZOOM
90
(MESSAGE REGION)
82 SAFE
83
94
84 VAULT
85
60 MAP WINDOW
TABLE
66
93
91
92
81 CLOCK
SHELF
90
80 DOOR

FIG. 5

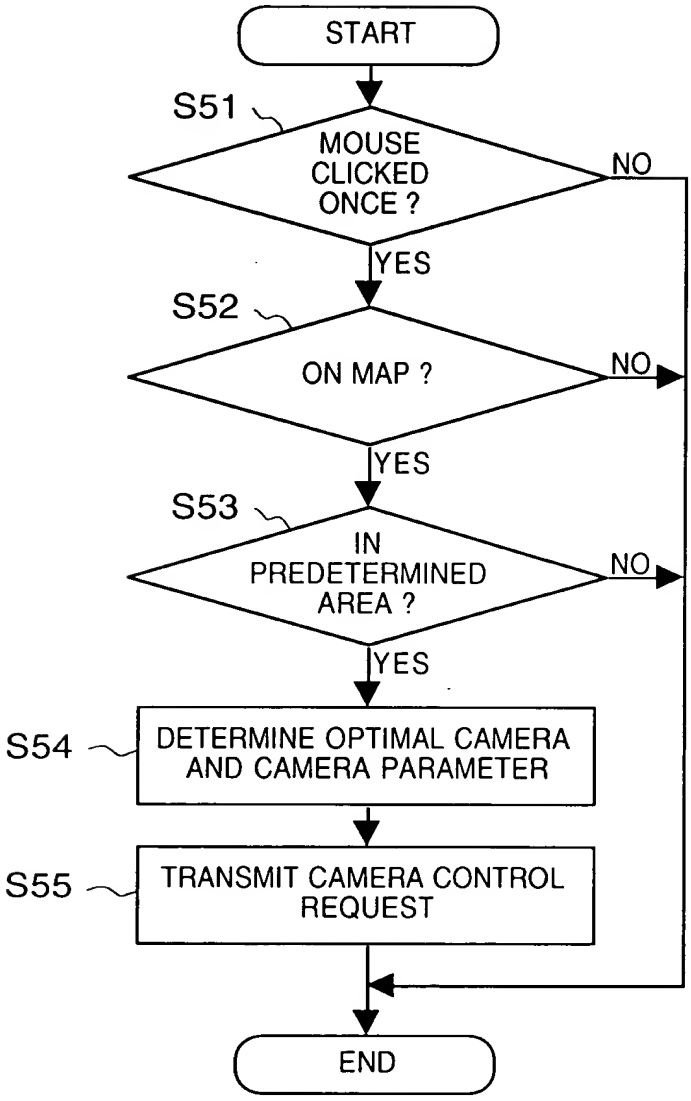

START
S51
MOUSE CLICKED ONCE ?
NO
YES
S52
ON MAP ?
NO
YES
S53
IN PREDETERMINED AREA ?
NO
YES
S54
DETERMINE OPTIMAL CAMERA AND CAMERA PARAMETER
S55
TRANSMIT CAMERA CONTROL REQUEST
END

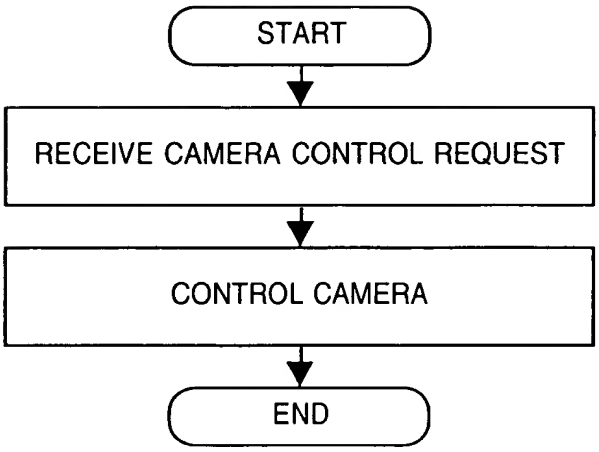
FIG. 6

AREA TABLE

AREA	CAMERA ID	CAMERA PARAMETER (P, T, Z)
80	90	(0, 10, 2)
	92	(–45, –10, 4)
81	92	(0, 25, 8)
	91	(60, 30, 3)
82	93	(–10, 0, 2)
90	91	(–8, 0, 1)
	92	(–10, 10, 3)

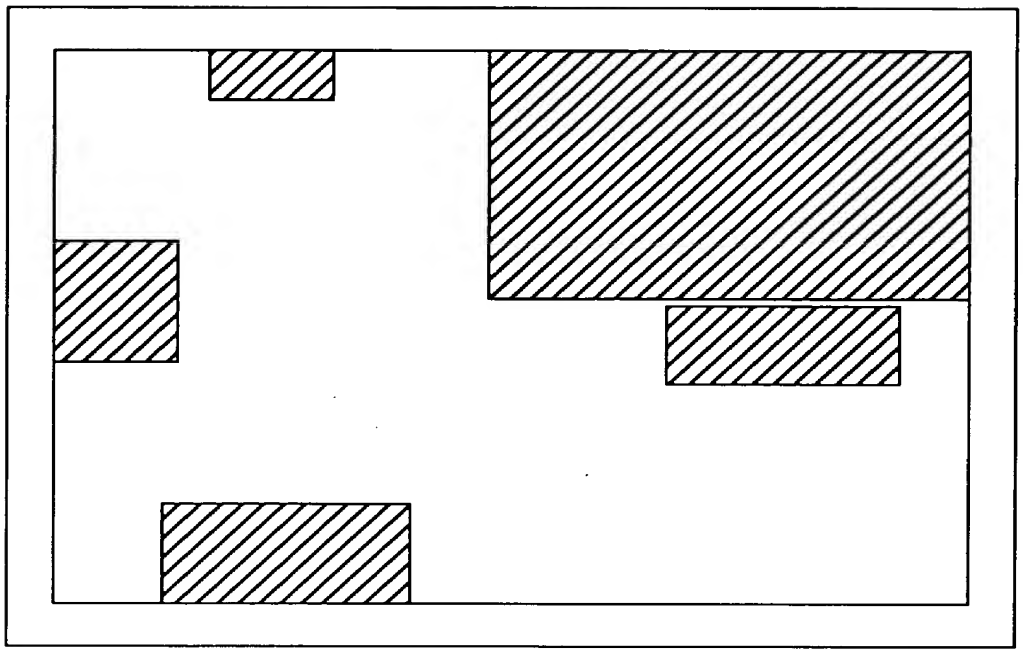
0055950 "0E2950

FIG. 7



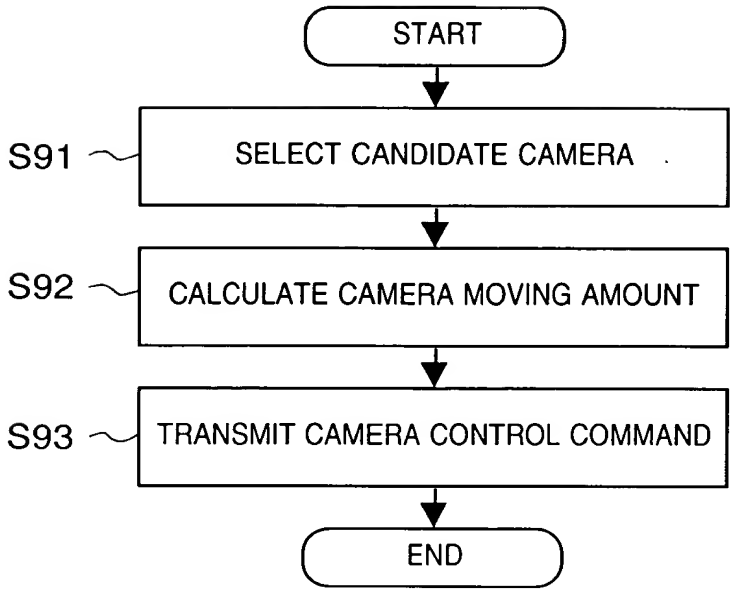
0052650 "0E3959D

FIG. 8



0052600-0E59560

FIG. 9


START
S91
SELECT CANDIDATE CAMERA
S92
CALCULATE CAMERA MOVING AMOUNT
S93
TRANSMIT CAMERA CONTROL COMMAND
END

F I G. 10

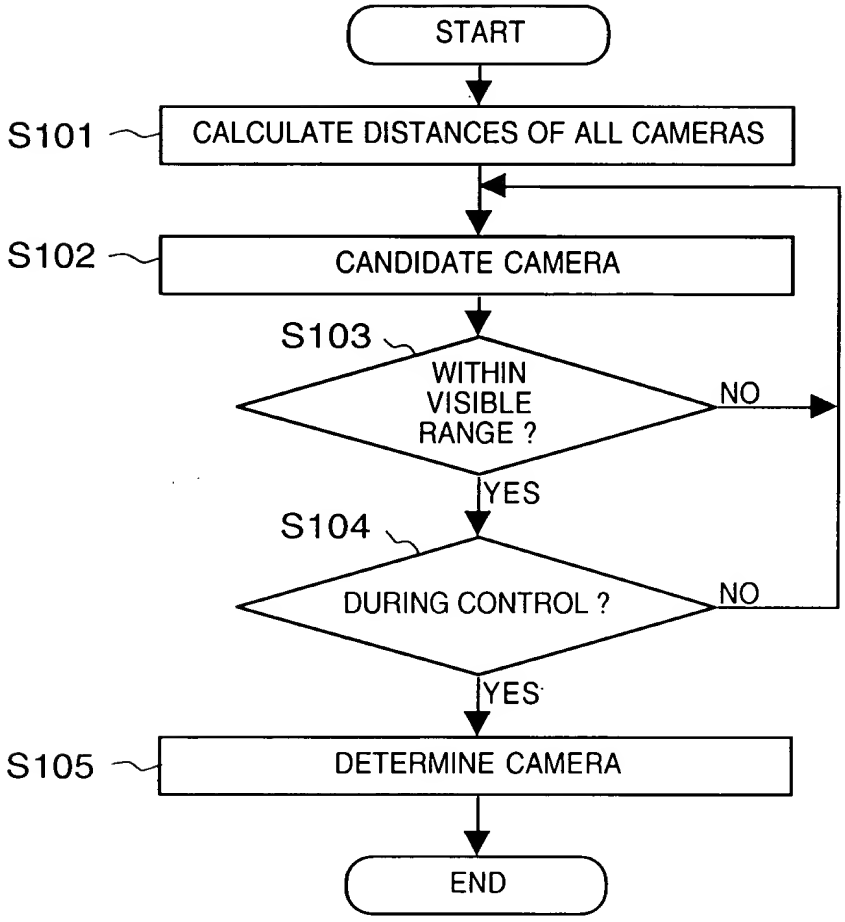

START
S101
CALCULATE DISTANCES OF ALL CAMERAS
S102
CANDIDATE CAMERA
S103
WITHIN VISIBLE RANGE ?
NO
YES
S104
DURING CONTROL ?
NO
YES
S105
DETERMINE CAMERA
END

FIG. 11A

FIXED INFORMATION

CAMERA NUMBER	CAMERA NAME	HOST NAME	INSTALLATION POSITION	INITIAL DIRECTION	MAXIMUM ZOOM RATIO	MAXIMUM FIELD ANGLE	PANNABLE DIRECTION
1	camera1	host1	(150, 11)	180	8.0	120	(120, 240)
2	camera2	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮						

FIG. 11B

VARIABLE INFORMATION

CAMERA NUMBER	ZOOM RATIO	VIDEO FIELD ANGLE	CURRENT IMAGE SENSING DIRECTION	IMAGE SENSING RANGE	DURING CAMERA CONTROL
1	3.0	40	145	(125, 165)	Y
2	⋮	⋮	⋮	⋮	N
⋮					⋮

FIG. 12

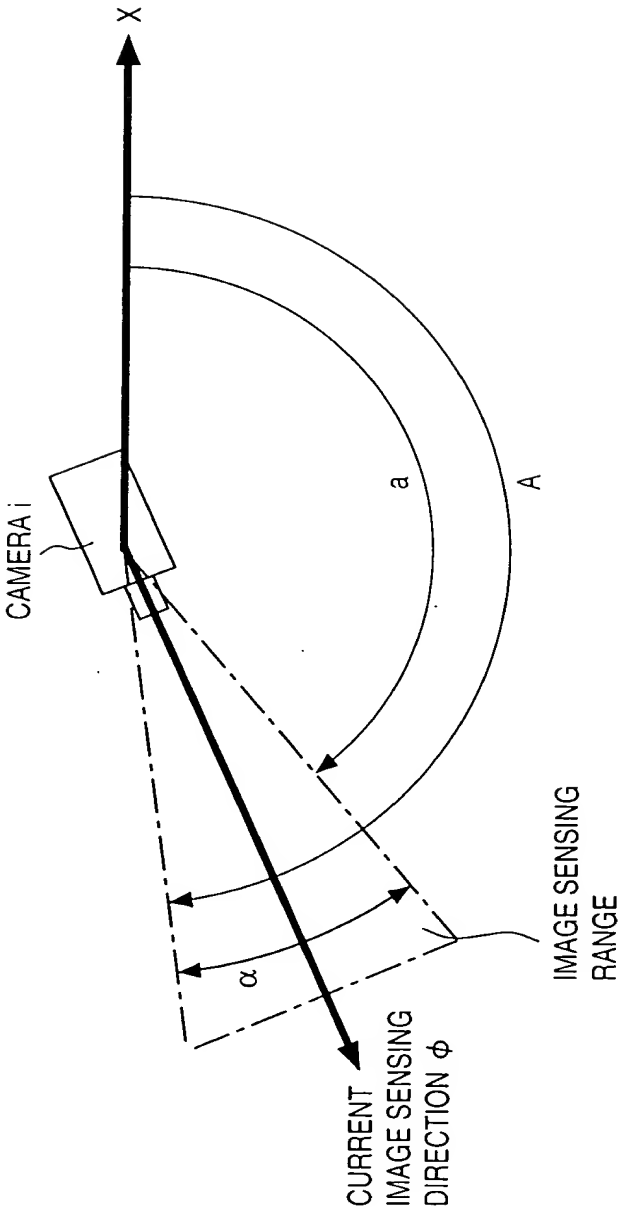
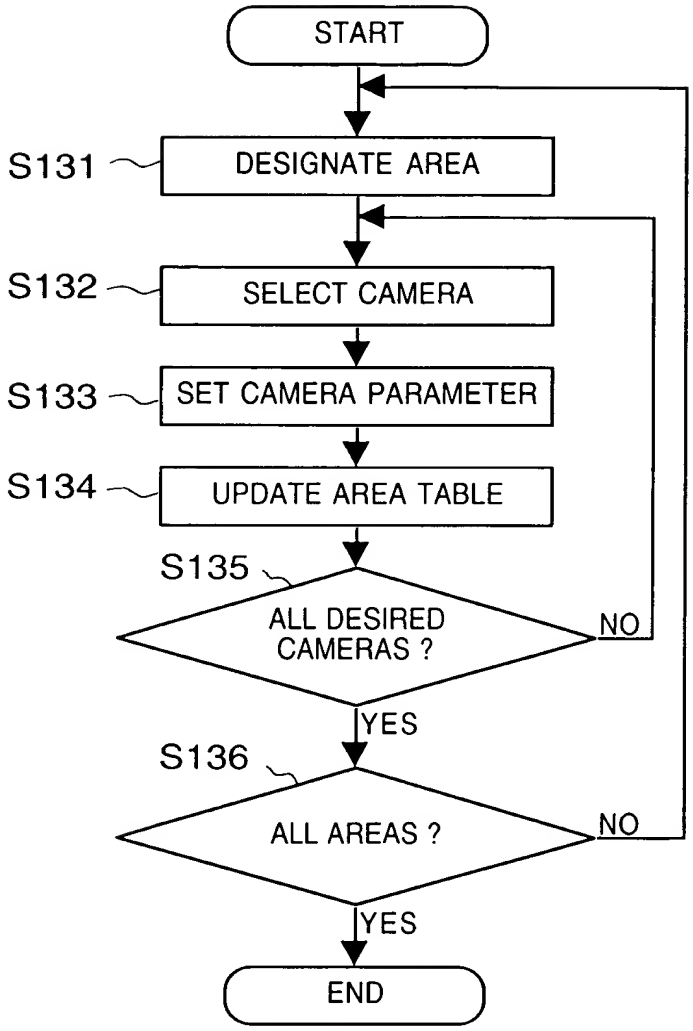

X
CAMERA i
a
A
α
IMAGE SENSING
RANGE
CURRENT
IMAGE SENSING
DIRECTION ϕ

FIG. 13



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